	Type	L#	Hits	Search Text	DBs	Time Stamp	Comm ents	Comm Error Errents n ors	Err
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FILE 'MEDLINE' ENTERED AT 17:44:48 02 SEP 2003
FILE 'CAPLUS' ENTERED AT 17:44:48 ON 02 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
FILE 'BIOSIS' ENTERED AT 17:44:48 ON 02 SEP 2003
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FILE 'EMBASE' ENTERED AT 17:44:48 ON 02 SEP 2003
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FILE 'SCISEARCH' ENTERED AT 17:44:48 ON 02 SEP 2003
COPYRIGHT 2003 THOMSON ISI
FILE 'AGRICOLA' ENTERED AT 17:44:48 ON 02 SEP 2003
=> s spastin
              232 SPASTIN
=> s sacsin
                30 SACSIN
=> s 11 or 12
              257 L1 OR L2
L3
=> s arsacs
                60 ARSACS
=> s 14 (p) mutat?
                25 L4 (P) MUTAT?
=> s 15 (p) 13
                12 L5 (P) L3
=> duplicate remove 16
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L6
                  5 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)
=> d 17 1-5 ibib abs
      ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
                                 2002:965729 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                                 138:235578
TITLE:
                                 Autosomal recessive spastic ataxia of
                                 Charlevoix-Saguenay (ARSACS/SACS)-no longer a local
                                 disease
AUTHOR(S):
                                 Richter, Andrea
CORPORATE SOURCE:
                                 Service de Genetique Medicale, Hopital Sainte-Justine,
                                 Departement de Pediatrie, Universite de Montreal,
                                 Montreal, QC, Can.
SOURCE:
                                 Genetics of Movement Disorders (2003), 189-193.
                                 Editor(s): Pulst, Stefan-M. Elsevier Science: San
                                 Diego, Calif. CODEN: 69DIVT; ISBN: 0-12-566652-7
DOCUMENT TYPE:
                                 Conference; General Review
LANGUAGE:
                                 English
         review. Autosomal recessive spastic ataxia of Charlevoix-Saguenay (
***ARSACS*** /SACS, OMIM 270550) originally described in 1978 is a clin.
AΒ
      A review.
      homogeneous form of early-onset familial disease with prominent myelinated
      retinal nerve fibers (Bouchard et al., 1991). Over 300 patients were
      identified and most of their families originated in the
      Charlevoix-Saguenay region of Northeastern Quebec in Canada. The
      frequency of several recessive diseases is increased in this region due to a founder effect caused by the settlement patterns of the late 17th to mid-19th centuries (Jette et al., 1991, Gauvreau et al., 1991, DeBraekeleer, 1991). The gene carrier prevalence was estd. to be 1/22. (DeBraekeleer et al., 1993). Patients present in early childhood with spastic gait ataxia. The disease progresses rapidly in young adults and patients are wheelchair-bound by their fifth decade. The ***ARSACS***
      locus was mapped to chromosome region 13q11 by noting increased homozygosity for locus D13S787 in a genome-wide scan (Bouchard et al.,
      1998). Following extensive genetic, phys., and transcript mapping
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combined with directed sequencing, 2 ***mutations*** were detected in the ***Sacsin*** (SACS) g in ***ARSACS*** families Richter et al., 1999, Engert et al., 1999, 2000). Both the single nucleoudde deletion (g.6594delT, .DELTA.T) and the g.5254C > T (C > T) nonsense ***mutation*** cause the premature termination of the predicted ***sacsin*** protein. We calcd. disease allele frequencies using data from more than 125 Quebec ***ARSACS*** patients. Close to 94% of the disease alleles carried the .DELTA.T ***mutation***, over 3% the C > T ***mutation***. Interestingly close to 3% of the disease alleles carry
                   ***mutation*** . Interestingly close to 3% of the disease alleles carry known ***mutation*** (s), always in heterozygous form with .DELTA.T
            unknown ***mutation*** (s), always in neterozygous form with .Delia.1 (Mercier et al., 2001). The sequencing of SACS is underway to identify these ***mutations***. There are descriptions of recessive spastic ataxias clin. very similar to ***ARSACS*** in France (Chaigne et al., 1993), Tunisia (Mrissa et al., 2000), Spain (Pascual-Castroviejo et al., 2000), and Turkey (Gucuyener et al., 2001). The availability of family material in two of the studies permitted linkage anal. Results show that the disease linked to the SACS region on chromosome 13q in a large
            consanguineous kindred from Tunisia (Mrissa et al., 2000) and in two consanguineous families from Turkey (Gucuyener et al., 2001). These publications likely represent only the first few cases of recessive spastic ataxia where a diagnosis of ***ARSACS*** should be considered.
RENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                                                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
             ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
                                                                  2001:300914 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                                                                  134:324718
                                                                                                                              ***spastin***
                                                                  Identification of the
TITLE:
                                                                  associated with autosomal recessive spastic ataxia of Charlevoix-Saguenay ( ***ARSACS*** ) and diagnostic
                                                                                                      ***mutations***
                                                                  detection of
                                                                 Hudson, Thomas J.; Engert, James; Richter, Andrea
INVENTOR(S):
                                                                 Mcgill University, Can.; Hopital Sainte-Justine PCT Int. Appl., 76 pp.
PATENT ASSIGNEE(S):
SOURCE:
                                                                  CODEN: PIXXD2
DOCUMENT TYPE:
                                                                  Patent
                                                                  English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
             PATENT NO.
                                                         KIND
                                                                         DATE
                                                                                                                 APPLICATION NO.
             wo 2001029266
                                                          A2
                                                                         20010426
                                                                                                                 wo 2000-us29130 20001020
             wo 2001029266
                                                           Α3
                                                                         20020711
                                 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                                  CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
                      CR, CO, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GN, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CT, CM, GA, GN, GW, ML, MB, NE, SN, TD, TC
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CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
N. INFO.: US 1999-160588P P 19991020
PRIORITY APPLN. INFO.:
     Isolated spastin genes and fragments thereof, as well as Spastin proteins
     and fragments thereof are disclosed. Also disclosed are altered forms of
     spastin, as well as methods for the diagnosis and treatment of
     neurodegenerative disease.
```

ANSWER 3 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: 2003:381365 BIOSIS DOCUMENT NUMBER: PREV200300381365 \*\*\*mutation\*\*\* detection and studies TITLE: \*\*\*ARSACS\*\*\* :

towards understanding the function of \*\*\*sacsin\*\*\* Richter, A. M. (1); Mercier, J. (1); Engert, J. C.; LeBlanc, C. (1); Hudson, T. J. (1) Centre de Recherche, Hopital Sainte-Justine, Universite AUTHOR(S):

de Montreal, Montreal, PQ, Canada: andrea.richter@umontreal.ca Canada

European Journal of Human Genetics, (2001) vol. 9, No.

Supplement 1, pp. P1443. print.

Meeting Info.: 10th International Congress of Human Genetics Vienna, Austria May 15-19, 2001 International

Federation of Human Genetics Societies

ISSN: 1018-4813. Conference

DOCUMENT TYPE: LANGUAGE:

CORPORATE SOURCE:

SOURCE:

English

L7" ANSWER 4 OF 5 DUPLICATE 1 MEDLINE on 2002062754 MEDLINE ACCESSION NUMBER:

DOCUMENT NUMBER: 21648525 PubMed ID: 11788093

Rapid detection of the sacsin mutations causing autosomal TITLE:

recessive spastic ataxia of Charlevoix-Saguenay.

Mercier J; Prevost C; Engert J C; Bouchard J P; Mathieu J; **AUTHOR:** 

Richter A

CORPORATE SOURCE: Service de Genetique Medicale, Hopital Sainte-Justine,

Departement de Pediatrie, Universite de Montreal, 3175 Cote

Sainte Catherine, Montreal, Quebec, Canada H3T 1C5. GENETIC TESTING, (2001 Fall) 5 (3) 255-9. Journal code: 9802546. ISSN: 1090-6576. SOURCE:

PUB. COUNTRY: **United States** 

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200203

Entered STN: 20020125 ENTRY DATE:

Last Updated on STN: 20020403 Entered Medline: 20020327

Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\*; MIM SACS 270550) is frequent in northeastern Quebec. Two causal \*\*\*mutations\*\*\* have been identified in the 11.7-kb single exon

\*\*\*mutations\*\*\* gene by sequence-based analyses. \*\*\*Mutation\*\*\*
g.6594delT (DeltaT) was reported in 96% of the patients whereas a g.5254C
--> T nonsense \*\*\*mutation\*\*\* has been observed only in 2 families. Here we report a reliable and inexpensive method to detect more than 95% of the \*\*\*ARSACS\*\*\* disease alleles from northeastern Quebec using allele-specific oligonucleotide (ASO) hybridization. This procedure is being incorporated into the diagnosis of \*\*\*ARSACS\*\*\*, as well as being used for carrier detection in at-risk families from northeastern Quebec.

ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2

2000:114331 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 132:263561

TITLE: ARSACS, a spastic ataxia common in northeastern

Quebec, is caused by mutations in a new gene encoding an 11.5-kb ORF

AUTHOR(S):

Engert, James C.; Berube, Pierre; Mercier, Jocelyne; Dore, Carole; Lepage, Pierre; Ge, Bing; Bouchard, Jean-Pierre; Mathieu, Jean; Melancon, Serge B.; Schalling, Martin; Lander, Eric S.; Morgan, Kenneth;

Hudson, Thomas J.; Richter, Andrea

Montreal Genome Centre, McGill University Health CORPORATE SOURCE:

Centre Research Institute, Montreal, QC, Can. Nature Genetics (2000), 24(2), 120-125 CODEN: NGENEC; ISSN: 1061-4036

SOURCE:

PUBLISHER: Nature America

DOCUMENT TYPE: Journal English LANGUAGE:

Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\* or SACS) is an early onset neurodegenerative disease with high prevalence

or SACS) is an early onset neurodegenerative disease with high prevalence (carrier frequency 1/22) in the Charlevoix-Saguenay-Lac-Saint-Jean (CSLSJ) region of Quebec. The authors previously mapped the gene responsible for \*\*\*ARSACS\*\*\* to chromosome 13q11 and identified two ancestral haplotypes. Here the authors report the cloning of this gene, SACS, which encodes the protein \*\*\*sacsin\*\*\*. The ORF of SACS is 11,487 bp and is encoded by a single gigantic exon spanning 12,794 bp. This exon is the largest to be identified in any vertebrate organism. The ORF is conserved in human and mouse. The putative protein contains three large segments in human and mouse. The putative protein contains three large segments with sequence similarity to each other and to the predicted protein of an Arabidopsis thaliana ORF. The presence of heat-shock domains suggests a function for \*\*\*sacsin\*\*\* in chaperone-mediated protein folding. SACS is expressed in a variety of tissues, including the central nervous system. The authors identified two SACS \*\*\*mutations\*\*\* in \*\*\*mutations\*\*\*

\*\*\*ARSACS\*\*\* families that lead to protein truncation, consistent with

haplotype anal.

REFERENCE COUNT: - 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'MEDLINE, CAPLUS, BIOSIS EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:44:48 ON 02 SEP 2003
L1
               232 S SPASTIN
                30 S SACSIN
 L3
               257 S L1 OR L2
                60 S ARSACS
                25 S L4 (P) MUTAT?
12 S L5 (P) L3
                 5 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)
=> duplicate remove 15
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L5
                 8 DUPLICATE REMOVE L5 (17 DUPLICATES REMOVED)
=> s 18 not 17
                4 L8 NOT L7
=> d 19 1-4 ibib abs
      ANSWER 1 OF 4
                           MEDLINE on STN
                        2003341319
ACCESSION NUMBER:
                                          MEDLINE
                        22755616
                                     PubMed ID: 12873855
DOCUMENT NUMBER:
                        Phenotypic features and genetic findings in sacsin-related
TITLE:
                        autosomal recessive ataxia in Tunisia.
                        El Euch-Fayache Ghada; Lalani Irfan; Amouri Rim; Turki
AUTHOR:
                        Ilhem; Ouahchi Karim; Hung Wu-Yen; Belal Samir; Siddique
                        Teepu; Hentati Faycal
CORPORATE SOURCE:
                        Department of Neurology, National Institute of Neurology,
                        Tunis, Tunisia.
                        ARCHIVES OF NEUROLOGY, (2003 Jul) 60 (7) 982-8. 
Journal code: 0372436. ISSN: 0003-9942.
SOURCE:
PUB. COUNTRY:
                        United States
DOCUMENT TYPE:
                        Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:
                        English
                        Abridged Index Medicus Journals; Priority Journals
FILE SEGMENT:
ENTRY MONTH:
                        200308
ENTRY DATE:
                        Entered STN: 20030723
                        Last Updated on STN: 20030807
Entered Medline: 20030806
      BACKGROUND: Autosomal recessive spastic ataxia of Charlevoix-Saguenay (
AB
        ***ARSACS*** ) is a clinically homogenous disorder reported in Quebec
                   ***mutations***
      caused by
                                         in the SACS gene (chromosome 13q12).
      Recently, we identified a Tunisian kindred demonstrating linkage to the
        ***ARSACS***
                         locus. OBJECTIVE: To report clinical, neurophysiological,
      and nerve biopsy findings in patients with autosomal recessive cerebellar
      ataxia related to the SACS gene in Tunisia. PATIENTS AND METHODS: Genetic
     linkage analysis of patients with early-onset autosomal recessive cerebellar ataxia allowed the identification of 4 families from which 18 patients demonstrated linkage to the ***ARSACS*** locus. The patient
                                                                     locus. The patients
      were evaluated according to the International Cooperative Ataxia Rating
      Scale. Peripheral nerve conduction, sensory evoked potentials, and nerve
      biopsy were performed in most patients. RESULTS: The mean age at onset
      was 4.5 years. The clinical phenotype was stereotyped and associated with
      a progressive cerebellar syndrome, a pyramidal syndrome with brisk knee
      reflexes, and Babinski sign and absent ankle reflexes. The course of the
     disease varied among patients. Sensory evoked potentials showed severe posterior column involvement. Peripheral nerve investigations
      demonstrated axonal and demyelinating neuropathy. Four
                                                                          ***mutations***
     , 2 missense and 2 nonsense, were found. CONCLUSION: In Tunisia, autosomal recessive cerebellar ataxia related to the SACs gene
      demonstrated a homogenous phenotype and heterogeneous allelic
        ***mutations***
     ANSWER 2 OF 4
                           MEDLINE on STN
ACCESSION NUMBER:
                       2000120709
                                         MEDLINE
DOCUMENT NUMBER:
                       20120709
                                    PubMed ID: 10655055
                          ***ARSACS***
                                           , a spastic ataxia common in northeastern by ***mutations*** in a new gene
TITLE:
                       Quebec, is caused by
                       encoding an 11.5-kb ORF.
                       Engert J C; Berube P; Mercier J; Dore C; Lepage P; Ge B; Bouchard J P; Mathieu J; Melancon S B; Schalling M; Lander E S; Morgan K; Hudson T J; Richter A
AUTHOR:
CORPORATE SOURCE:
                       Montreal Genome Centre, McGill University Health Centre
```

Research Institute, Montreal, Quebec, Canada. NATURE GENETICS, (2000 Feb) 24 (2) 120-5.

SOURCE:

Journal code: 9216904. ISSN: 1061-4036.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

GENBANK-AB006708; GENBANK-AF193556; GENBANK-AF193557 OTHER SOURCE:

ENTRY MONTH: 200002

Entered STN: 20000314 ENTRY DATE:

Last Updated on STN: 20000314 Entered Medline: 20000228

Autosomal recessive spastic ataxia of Charlevoix-Saguenay (ARSACS or SACS) AΒ is an early onset neurodegenerative disease with high prevalence (carrier frequency 1/22) in the Charlevoix-Saguenay-Lac-Saint-Jean (CSLSJ) region of Quebec. We previously mapped the gene responsible for ARSACS to chromosome 13q11 and identified two ancestral haplotypes. Here we report the cloning of this gene, SACS, which encodes the protein sacsin. The ORI of SACS is 11,487 bp and is encoded by a single gigantic exon spanning 12,794 bp. This exon is the largest to be identified in any vertebrate The ORF The ORF is conserved in human and mouse. The putative protein contains three large segments with sequence similarity to each other and to the predicted protein of an Arabidopsis thaliana ORF. The presence of heat-shock domains suggests a function for sacsin in chaperone-mediated protein folding. SACS is expressed in a variety of tissues, including the central nervous system. We identified two SACSmutations in ARSACS families that lead to protein truncation, consistent with haplotype analysis.

ANSWER 3 OF 4 MEDLINE on STN 1999162199 ACCESSION NUMBER: **MEDLINE** 

DOCUMENT NUMBER: 99162199 PubMed ID: 10053011

TITLE: Location score and haplotype analyses of the locus for

autosomal recessive spastic ataxia of Charlevoix-Saguenay,

in chromosome region 13q11.

Erratum in: Am J Hum Genet 1999 Apr; 64(4):1257 COMMENT:

Richter A; Rioux J D; Bouchard J P; Mercier J; Mathieu J; AUTHOR:

Ge B; Poirier J; Julien D; Gyapay G; Weissenbach J; Hudson

T J; Melancon S B; Morgan K

CORPORATE SOURCE: Service de Genetique Medicale, Hopital Sainte-Justine, 3175

chemin de la Cote Sainte-Catherine, Montreal, Quebec н3Т

1C5, Canada.. richtera@ere.umontreal.ca

AMERICAN JOURNAL OF HUMAN GENETICS, (1999 Mar) 64 (3) SOURCE:

768-75

Journal code: 0370475. ISSN: 0002-9297.

United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

PUB. COUNTRY:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199904

ENTRY DATE:

Entered STN: 19990504 Last Updated on STN: 20000421 Entered Medline: 19990420

AB Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( \*\*\*ARSACS\*\*\* ) is a clinically homogeneous form of early-onset familial spastic ataxia with prominent myelinated retinal nerve fibers. More than 300 patients have been identified, and most of their families originated in the Charlevoix-Saguenay region of northeastern Quebec, where the carrier prevalence has been estimated to be 1/22. Consistent with the hypothesis of a founder effect, we observed excess shared homozygosity at 13q11, among patients in a genomewide scan of 12 families. Analysis of 19 pedigrees demonstrated very tight linkage between the \*\*\*ARSACS\*\*\* locus and an intragenic polymorphism of the gamma-sarcoglycan (SGCG) gene, but genomic DNA sequence analysis of all eight exons of SGCG revealed no disease-causing \*\*\*mutation\*\*\* . On the basis of haplotypes composed of seven marker loci that spanned 11.1 cM, the most likely position of the \*\*\*ARSACS\*\*\* locus was 0.42 cM distal to the SGCG polymorphism. Two groups of \*\*\*ARSACS\*\*\* -associated haplotypes were identified: a large group that carries a common SGCG allele and a small group that carries a group that carries a common SGCG allele and a small group that carries a rare SGCG allele. The haplotype groups do not appear to be closely related. Therefore, although chromosomes within each haplotype group may harbor a single \*\*\*ARSACS\*\*\* \*\*\*mutation\*\*\* identical by descent, \*\*\*mutations\*\*\* could have independent origins. the two

ANSWER 4 OF 4 MEDLINE on STN 93231501 ACCESSION NUMBER: MEDLINE DOCUMENT NUMBER: 93231501

PubMed ID: 8472930 TITLE: Genetic epidemiology of autosomal recessive spastic ataxia of Charlevoix-Saguenay in northeastern Quebec.

```
De Braekeleer M: Giasson F; Mathieu J; Roy M; Bouchard J P;
AUTHOR: .
                       Morgan K
                       Departement des Sciences Humaines, Universite du Quebec a
CORPORATE SOURCE:
                       Chicoutimi, Canada.
                       GENETIC EPÍDEMIOLOGY, (1993) 10 (1) 17-25.
Journal code: 8411723. ISSN: 0741-0395.
SOURCE:
                       United States
PUB. COUNTRY:
                       Journal; Article; (JOURNAL ARTICLE)
DOCUMENT TYPE:
                       English
LANGUAGE:
FILE SEGMENT:
                       Priority Journals
ENTRY MONTH:
                       199305
                       Entered STN: 19930604
ENTRY DATE:
                       Last Updated on STN: 20000303
                       Entered Medline: 19930519
     Autosomal recessive spastic ataxia of Charlevoix-Saguenay ( ***ARSACS***
AB
      ) is a disorder that has an elevated frequency in Saguenay-Lac-St-Jean
      (SLSJ) and Charlevoix, two geographically isolated regions in the past of
      northeastern Quebec. The incidence at birth and the carrier rate in SLSJ
     were estimated at 1/1,932 liveborn infants and 1/22 inhabitants,
      respectively, for the period 1941-1985. The mean inbreeding coefficient
     was twice higher and the mean kinship coefficient 3 times higher among the ***ARSACS*** families than among control families. In the SLSJ region, the birth places of the ***ARSACS*** individuals and their parents did
     the birth places of the ***ARSACS*** individuals and their pare not show a clustered distribution. The genealogical reconstruction suggests that the high incidence of ***ARSACS*** in SLSJ and
                                                    individuals and their parents did
     Charlevoix is likely to be the result of a founder effect.
                                                                           Because the
     disease is apparently unknown elsewhere in the world and a high proportion
     of French Canadians presently living in eastern Quebec have ancestors
     coming from Perche, a small region in France, it also suggests that a
               ***mutatión***
                                   accounts for most, if not all, of the
      unique
        ***ARSACS***
                        cases known in these regions.
=> d his
      (FILE 'HOME' ENTERED AT 17:44:28 ON 02 SEP 2003)
     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:44:48 ON 02 SEP 2003
L1
              232 S SPASTIN
               30 S SACSIN
L3
              257 S L1 OR L2
L4
               60 S ARSACS
L5
               25 S L4 (P) MUTAT?
               12 S L5 (P) L3
L6
                5 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)
L7
L8
                8 DUPLICATE REMOVE L5 (17 DUPLICATES REMOVED)
L9
                4 S L8 NOT L7
=> s 18 (p) recombinant
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L70 (P) RECOMBINA'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L72 (P) RECOMBINA'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L74 (P) RECOMBINA'
L10
               0 L8 (P) RECOMBINANT
=> d his
      (FILE 'HOME' ENTERED AT 17:44:28 ON 02 SEP 2003)
     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:44:48 ON 02 SEP 2003
L1
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L2
               30 S SACSIN
L3
              257 S L1 OR L2
L4
               60 S ARSACS
L5
               25 S L4 (P) MUTAT?
L6
               12 S L5 (P) L3
L7
                 DUPLICATE REMOVE L6 (7 DUPLICATES REMOVED)
                8 DUPLICATE REMOVE L5 (17 DUPLICATES REMOVED)
L8
L9
                4 S L8 NOT L7
                0 S L8 (P) RECOMBINANT
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COST IN U.S. DOLLARS
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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ENTRY
-1.95

SESSION

TOTAL

SESSION -1.95

Connection closed by remote host